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# 'IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: **HUNG KUN CHEN**

SERIAL NO.: 10/724,742

FILED: December 2, 2003

FOR: CHANNEL NOISE ESTIMATING METHOD AND  
APPARATUS APPLIED TO A MULTI-CARRIER  
SYSTEM

GROUP ART UNIT: 2611

EXAMINER: E. File

ATTY. REFERENCE: CHEN3608/BEU



**COMMISSIONER OF PATENTS**  
P.O. Box 1450  
Alexandria, VA 22313-1450

*Sir:*

Transmitted herewith is a communication/amendment in the above-identified application.

Small entity status under 37 CFR 1.9 and 1.27 is claimed.  
 No additional fee is required.

The fee, if any, has been calculated as shown below:

Fee Basis	Number of Claims After Amendment	Highest Number Previously Paid For	Extra Claims	Small Entity	Full Fee
Total Claims	-	<sup>1</sup>	<sup>3</sup> =	$\times \$25 =$	$\times \$50 =$
Independent Claims	-	<sup>2</sup>	<sup>3</sup> =	$\times \$100 =$	$\times \$200 =$
<input type="checkbox"/> First Presentation of Proper Multiple Dependent Claim			+ \$180 =		+ \$360 =
			<b>TOTAL</b>		

<sup>1</sup> If less than 20 enter 20.

<sup>2</sup> If less than 3 enter 3.

<sup>3</sup> If less than 0 enter 0.

Please charge my **Deposit Account Number 02-0200** in the amount of \$ \_\_\_\_\_. A duplicate copy of this sheet is attached.  
 A check in the amount of \$ \_\_\_\_\_ is attached.  
 The Commissioner is hereby authorized to charge any additional fees associated with this communication, including fees due under 37 CFR 1.16 and 37 CFR 1.17 or credit any overpayment to **Deposit Account Number 02-0200**. A duplicate copy of this sheet is attached.  
 Also enclosed is/are: **2 - NEW DRAWING SHEETS (FIGS. 8 AND 9)**

23364  
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Phone: (703) 683-0500

DATE: April 12, 2007

*Respectfully submitted,*

  
\_\_\_\_\_  
Benjamin E. Urcia  
Attorney for Applicant  
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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent Application of: ) Group Art Unit: 2611  
Hung Kun CHEN ) Examiner: E. File  
Serial Number: 10/724,742 ) Attorney Docket: CHEN3608/BEU  
Filed: December 2, 2003 ) Confirmation No.: 2098

For: **Channel Noise Estimating Method And Apparatus Applied To A Multi-Carrier System**

**AMENDMENT AND RESPONSE**

Honorable Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA. 22313-1450

Sir:

This paper is in response to the Official Action dated January 17, 2007.

Amendments to the specification are set forth on page 2.

Amendments to the drawings are set forth on page 3 and included in the form of NEW DRAWING SHEETS, attached hereto.

Remarks/Arguments begin on page 4.